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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,787	12/05/2001	Yong Sung Ham	049128-5040 2255	
9629	7590 06/28/2005		EXAMINER	
MORGAN LEWIS & BOCKIUS LLP			CHOW, DOON Y	
	TON, DC 20004	N.W.	ART UNIT	PAPER NUMBER
	•		2677	

DATE MAILED: 06/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Astion Commons	10/001,787	HAM, YONG SUNG			
Office Action Summary	Examiner	Art Unit			
	Dennis-Doon Chow	2677			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 22 March 2005.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-7,9,11-17 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 4-6 and 14-16 is/are allowed. 6) Claim(s) 1-3 and 11-13 is/are rejected. 7) Claim(s) 7,9,17 and 19 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson (WO 99/05567) in view of Usui et al. (5844533)

Johnson discloses an apparatus and a method driving a liquid crystal display, comprising a modulation (correction) means for modulation data in the liquid crystal display (see Fig. 7). The modulation means includes a determining means for determining an old data (outputted data) and a new data (normal data), and an inputting means for inputting the old data and the new data into a LUT (33) which determines and stores modulation data. The LUT then outputs the modulation data to an adder (34). The adder (34) adds the modulation data and the new data, and outputs the total data to the display.

Johnson does not disclose using a calculator to calculate a difference between the old data and the new data. Instead, Johnson discloses determining the difference between the old data and the new data by looking up data in the LUT (33).

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Usui, in the same display field, disclose using a calculator circuit including a subtraction circuit for calculating a difference between old data and new data (col. 17, lines 57-65).

It would have been obvious to one ordinary skill in the art to substitute Usui's calculator circuit for Johnson's LUT to determine the difference between the old data and the new data. This would have been obvious because Johnson teaches that the calculator circuit can be used instead of the LUT (page 3, lines 2-5).

Allowable Subject Matter

- 5. Claims 4-6 and 14-16 are allowed.
- 6. Claims 7, 9, 17, and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments filed 3/0/05 have been fully considered but they are not persuasive.

Applicant argues, as he did in the previous Remarks, that Johnson and Usui, whether taken separately or in combination, fail to teach or suggest "determining a standard data for driving video data normally," "determining an output data displayed on the liquid crystal display," "and acquiring a modulation data by calculating differences

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between the normal data and the output data." Again, the examiner disagrees with applicant's argument for the following reasons.

After carefully reviewing the specification again, it appears that the present application is related to a modulation means for determining a current data and a previous data, and for comparing the current with the previous data to determine the difference. The difference is then used to modulate the current data. As to the claimed standard data, the closest feature related to the standard data in the specification is the current data. Therefore, the combined Johnson and Usui, as indicated in the above paragraphs and the previous examiner's remarks, clearly teach all the claimed features.

Applicant argues that Johnson does not disclose teach or suggest "storing the modulation data in the liquid crystal display". The examiner disagrees with applicant's argument because the storing means is look up table which is equal to Johnson's look up table 33 (see Fig. 7).

Conclusion

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis-Doon Chow whose telephone number is 571-272-7767. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on 571-272-3638. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dennis-Doon Chow Primary Examiner Art Unit 2677

D. Chow

PRIMARY EXAMINER

June 25, 2005